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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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09/726,889 12/02/00 STEFANOVIĆ

V 199-1306

EXAMINER

MMC1/0606

ART UNPENZA EX PAPER NUMBER

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SMITH PATENT OFFICE
1901 PENNSYLVANIA AVE., N.W., SUITE 200
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2834
DATE MAILED:

06/06/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary	Application No.	Applicant(s)
	09/728,889	STEFANOVIĆ ET AL.
Examiner	Art Unit	
Julio C. Gonzalez	2834	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on _____.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-14 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claims _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 02 December 2000 is/are objected to by the Examiner.
- 11) The proposed drawing correction filed on _____ is: a) approved b) disapproved.
- 12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

- 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

- 15) Notice of References Cited (PTO-892)
- 16) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 17) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 1.
- 18) Interview Summary (PTO-413) Paper No(s). _____.
- 19) Notice of Informal Patent Application (PTO-152)
- 20) Other: _____.

DETAILED ACTION

Drawings

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the stator, winding connected to the inverter, microprocessor connected to the inverter disclosed in claims 1, 14, 10 and the toroidally wound stator disclosed in claims 5, 7, 13 and the squirrel cage rotor disclosed in claims 6, 7 and the digital signal processor disclosed in claim 8 and the steps of controlling the inverter disclosed in claim 9 and the position sensor connected to the induction machine disclosed in claims 10, 11, 14 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 2-4, 9 and 12 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The statement disclosed in claim 2, "program operates to control the induction machined as a generator" needs more clarification. Is the program going to make the motor work like a generator? Or is the program going to only "control" the motor as a generator? How can the motor perform like a generator?

Art Unit: 2834

In claim 3, what is the difference between the motoring operation and the generating operation mode? How is the induction machine switch from one mode to the other?

What is each mode for?

In claim 9, what are the steps for the controlling the inverter? Could a flowchart explain the steps?

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless —

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 1-4 and 8-12 are rejected under 35 U.S.C. 102(b) as being anticipated by Le.

Le discloses an induction machine with a stator 14 and rotor, said stator 14 having a plurality of phase windings A, B, C, an inverter 12 with a plurality of switches (see figure 2) and the inverter being connected to the digital signal processor 70 and the invention comprises also a position sensor 16.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 5-7, 13 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Le in view of Sawyer et al.

Le discloses an induction machine with a stator 14 and rotor, said stator 14 having a plurality of phase windings A, B, C, an inverter 12 with a plurality of switches (see figure 2) and the inverter being connected to the digital signal processor 70 and the invention comprises also a position sensor 16.

However, Le does not disclose a squirrel cage rotor and a toroidally wound stator. On the other hand, Sawyer et al discloses for the purpose for providing a balanced energy field between the stator and the rotor and lowering the harmonics, a toroidally wound stator (column 14, lines 25, 26) and a squirrel cage rotor (see figure 1).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to make an induction machine comprising an inverter, windings, a microprocessor as disclosed by Le and to modify the invention including a toroidally wound stator and a squirrel cage rotor for the purpose for providing a balanced energy field between the stator and the rotor and lowering the harmonics as disclosed by Sawyer et al.

Conclusion

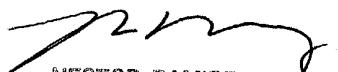
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Julio C. Gonzalez whose telephone number is (703) 305-1563. The examiner can normally be reached on M-F (8AM-5PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor Ramirez can be reached on (703) 308-1371. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 305-1341 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Jcg

June 2, 2001



NESTOR RAMIREZ
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800